



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Appln. Of

Inventor(s): Sugar et al.

Group Art Unit: 2631

Application No.: 10/757,704

Confirmation No.: 4476

Filing Date: January 14, 2004

Attorney Docket No.: Cognio25US3

Title: SYSTEM AND METHOD FOR REAL-TIME SPECTRUM ANALYSIS IN A
COMMUNICATION DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sirs:

Pursuant to the duty of disclosure requirements of 37 CFR 1.56, this Information Disclosure Statement is being submitted for entry in the above-identified application. It is being filed before the undersign's knowledge of the mailing of the first Office Action on the merits. Thus, no fee is believed due.

Attached is a form PTO-1449, together with copies of the cited references. The Examiner's consideration of the references is respectfully requested.

Respectfully submitted,

D. Andrew Floam

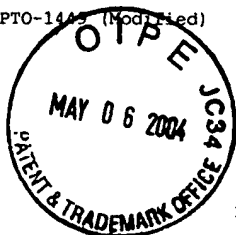
Reg. No. 34,597

Date: May 4, 2004

Cognio, Inc.
101 Orchard Ridge Drive, Suite 350
Gaithersburg, Maryland 20878
Phone: 301-944-1447
Fax: 240-631-1943

I, D. Andrew Floam, hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, PO Box 1450 Alexandria, VA 22313-1450

May 4, 2004



COGNIO, INC.
 101 ORCHARD RIDGE DRIVE, SUITE 350
 GAITHERSBURG, MARYLAND 20878

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: Cognio25US3
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FOREIGN PATENT DOCUMENTS

| <u>Examiner Initial</u> | <u>Document Number</u> | <u>Date</u> | <u>Country</u> | <u>Class/Subclass</u> | <u>Translation (Yes or No)</u> |
|-------------------------|------------------------|-------------|----------------|-----------------------|--------------------------------|
| BA | 2260336 | 08/15/2000 | Canada | CO1R 29/26 | |
| BB | 2298316 | 08/15/2000 | Canada | HO4B 1/16 | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| <u>*Examiner Initial</u> | <u>Author, Title, Date, Pertinent Pages, Etc</u> |
|--------------------------|---|
| CA | MEDAV, Dr Hans-Joachim Kolb, "Short Time Spectral Analysis Of Audio Signals On A PC," date unknown. |
| CB | Agilent publication, "Agilent PSA Performance Analyzer Series Swept And FFT Analysis, Product Note," 2000. |
| CC | Agilent Publication, "Agilent 89400 Series Vector Signal Analyzer Product Overview," 2000. |
| CD | Agilent Publication, "Agilent Technologies: 2G & 3G Solutions-Accelerating Progress," 2002. |
| CE | Agilent Publication, "Agilent Technologies: Powerful Solutions To Complex Measurement Problems; Burst, Transient + Modulated Signal Analysis," 2000. |
| CF | Agilent Publication, "Agilent PN 89400-8 Using Vector Modulation Analysis In The Integration, Troubleshooting And Design Of Digital RF Communications Systems," 2000 (and earlier). |
| CG | Agilent Publication, "Agilent PN 89400-10 Time-Capture Capabilities Of The Agilent 89400 Series Vector Signal Analyzers," 2000 (and earlier). |
| CH | Agilent Publication, "Agilent 89440A-1 Frequency And Time-Selective Power Measurements With The Agilent 89410A And 89440A," 2001 (and earlier). |

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|---------------------------|--|------------------------|--|
| <u>Examiner Signature</u> | | <u>Date Considered</u> | |
|---------------------------|--|------------------------|--|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s)

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|----|--|
| CI | Canadian Communications Research Center, "Spectrum Explorer Project Of Canadian Communications Research Center," 1998 (and later). |
| CJ | Stanford Research Systems, "Stanford Research Systems SR785 Two Channel Dynamic Signal Analyzer," 1998. |
| CK | Agilent Publication, "Agilent Technologies Vector Signal Analyzer: Open New Windows For Alcatel Space Satellite Communications Business: Case Study," May 24, 2001. |
| CL | MEDAV, Dr. Hans-Joachim Kolb, "Signal Processing And Neural Networks In Surveillance And Radio Monitoring," Excerpt from ETH Zurich, 1993. |
| CM | Agilent Publication, "Agilent Technologies: Select The Right Agilent Signal Analyzer For Your Needs," 2003 (and earlier). |
| CN | MEDAV, "MEDAV ASTRID Analysis System For Telecom Signals, Recognition, Interception And Demodulation Of HF/VHF/UHF Radio Signals From 0 To 2 GHz," 2000. |
| CO | MEDAV, "MEDAV OC-6040 PC-based 4-Channel Analyser and Demodulator for Narrowband COMINT Signals with Automatic Signal Recognition and Text Decoding Capability," 2002. |
| CP | MEDAV, "Medav DSP-Kit Metlab TM- Toolbox For Real-Time Measurement Acquisition," date unknown. |
| CQ | MEDAV, "Medav Spektro-Kit; Online Spectrogram Analysis On A PC," date unknown. |
| CR | Tektronix, "Net Tek® BTS Transmitter And Interference Analyzer Ybt250", September 2002. |
| CS | Boudreau, Daniel et al., "Monitoring Of The Radio-Frequency Spectrum With A Digital Analysis System", June 27, 2000, Proceedings of the 15 th International Wroclaw Symposium and Exhibition on Electromagnetic Compatibility |
| CT | BBN Technologies, "Using Signal Processing To Analyze Wireless Data Traffic," May 22, 2002, BBN Technical Memorandum No. 1321, prepared for DARPA. |
| CU | Carlemalm, Catharina, "Suppression Of Multiple Narrowband Interferers In A Spread-Spectrum Communication System," August, 2000, IEEE Journal on Selected Areas in Communications, Special Issue on Broadband Communications, Vol. 18. |

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| CV | Boudreau, Daniel et al., "A Fast Automatic Modulation Algorithm And Its Implementation In A Spectrum Monitoring Radio Signals", October, 2000, Milcom 2000. |
| CW | Lo, Victor Yeeman, "Enhanced Spectral Analysis Tool (SAT) For Radio Frequency Interference Analysis And Spectrum Management," Milcom, 1998. |
| CX | MEDAV, "Astrid++ Analysis, Monitoring, Recording And Multi-Channel Direction Finding Of Wideband Application," 2000. |
| CY | Tektronix, "Real-Time Spectrum Analysis Tools Aid Transition To Third-Generation Wireless Technology," 1999. |
| CZ | Patenaude, Francois et al., "Spectrum Surveillance: System Architecture," CRC-TN-97-001, Canadian Communications Research Centre, April 15, 1997. |
| DA | Oscor, "Oscor 5000 Omni-Spectral Correlator," publication date unknown. |
| DB | Anritsu, "MS2711A Handheld Spectrum Analyzer," May, 2000. |
| DC | PCT Search Report from counterpart PCT application No. PCT/US03/12376 filed April 22, 2003. |

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